# KNOWLES REPLIES

Mr. Howard Bruce, an expert Gas Engineer of New York city. That report makes certain statements regarding the condition and management of the city works that are misleading and erroneous to such a degree that I feel called opon to such a degree that I feel called opon to such a degree that I feel called opon to such a degree that I feel called opon to such a degree that I feel called opon to make it in the proper light before the public. In answering his report 1 small take the future as near in the order that ne has put them as possible.

To begin, there is much in his report that I commend, and you will find inat your superintendent mas continuously and repeatedly recommended many of the things as necessary to the proper conduct and economical management of the works, which Mr. Bruce now says are necessary to the proper conducting deconomical management of the works, which Mr. Bruce now says are necessary to the cost of the cost and water gas separately are only approximations at loss, I mave asked repeatedly for appropriations to purchase the appliances and make the approximations at loss, I mave asked rements linecessary to meter the provise separately and thus be after the provise separately and thus be after the provise separately and thus to disk plant. Not avoing the funds to instant he separation appliances I have estimated the quantity of each gase made. (Tras is done in many works throughout the country.)

### Recommendations of Superin-

•	Cost of cont and oil, Expense & pay roll	as sold.	Maximum dally output, cu. ft.	Cost at burners per M, including pay roll, coal, oil and expense.
	Cost of coal and	Output of gas soid.	Maximum dally	Cost at burners coal, oil and er

	a	ressures to 4	Pressures from 5 P. M. to 4 A. M.	M.	Consu	Consumption of Lamps.	182
n.	Highest.	Lowest.	Highest, Lowest, Average.	In pres. for tests.	Burned 1 cu, ft. in.	Burned cu. ft. per hour.	12
oad Streets	3.6	6 3	17	200	7.15	S. S	
spring and Albemarle	3.5	8*	3.0	21	6	6.67	
rove Avenue	17::-	1.8	27.7	8:1	6.65	8.38	
Duval			71.		214		
Main and Cary	***	200		7.	4.0	19.0	
24th and 25th		20	17	7 6 4	5.40	10.6	
enable and Carrington	n. 34	23	9.7	2.5	6.8	171	
ain and Carv	23	1.8	2.25	61	7.20	8.2	
een 14th and Mayo	***	1	2.7	1	9	10	
een Marshall and Cla	y 3.9	17	2.8	2.8	5.45	10.4	
	, ,				SHEET STATE	102.65	

ng, \$5,474.05; interest (on \$10.700.00), \$43,-		201		10.2 (0.00)	It's not enough to digest your food, and	que
ing, \$5,474.05; interest (on \$10,700.00), \$43,- 040; city taxes (on \$10,700.00), \$15,004, and extension, \$10,577.55 was .842 per M cubic		₹.			reduce it to pulp or fiquid inside you, but it must also be properly absorbed,	we
feet.  To this amount could be properly added the cost of substation man in Treasurer's	C Hells W.V.	hour.			carried to the proper organs, filtered,	der
the cost of substation man in Treasurer's office, \$900.00 per annum, which would in-		per h	8.37 7.5 8.28 8.28 8.28 8.28 10.9		purified, and carried by your blood to	list
office, \$900.00 per nanum, which would in- crease the cost .0029 per M cubic feet, If this man was placed in our inspector's office	honor.	per	H.H. 18		the various parts of your body which are	Con
in addition to our present office force we		m			worn out and stand in need of repair.	bee
could collect all gas bills and account for them.		j j			This is a system of complicated ma-	you
We have no means of ascertaining the amount to be properly charged for other meldental expenses as melded by Mr.		r ed	5.15 7.15 5.30 5.30		chinery, engineering, chemistry and	me a v
Bruce the has estimated only) and con-	5	Burned cu. ft. !	101-4-001-13		physics, before which all of man's most wonderful achievements since the world	Co
Bruce (he has estimated only) and con- sider further comparisons useless.	Consulting to	1 c		77年12	began, pale into insignificance.	F
Regarding the criticism of our manufac- iuring cost, in my report for 1895 you will and "when I took charge of the works in		PROM.			And, when you come to think of it,	use
June last I found them in a bad condi-		pres.			next to the marvel of any complicated	ma
June jast I found them in a bad condition," and immediately with the approval of the Committee on Light we had repairs made to coal and water gas plants.		2,2	श्रामां संस्था अ अञ्चलक		piece of mechanism itself, is the man who, when it has broken down, can re-	nB
pairs made to coal and water gas plants,		for			pair it and make it go again.	ing
holder at Upper Works, (This holder was		1000			Stuart's Dyspepsia Tablets. Really, the most marvelous achieve-	Co
to condensors and purifiers and to large holder at Upper Works. (This holder was reported by the workman to have lost \$400,000 (the feet of gas before I had I rephired, which was done as soon as pos-		Average	848 4 8 84 84 8		ment in the vast field of man's many-	7
Store atter my appointment.		/er	esciet escent	AND CONTRACTOR	sided endeavors, A perfect medicine, which never falls	tril
nceded improvements were made. In 1990		4			to cure, or set in running order again,	the
new oil tank and boiler-house built, and in		ب			the complicated mechanism of man's in-	cor
new oil tank and boiler-house built, and in 1904 built a second storage oil tank to pro- vide against strikes and causes beyond our control by having a supply of oil on hand	ALCOHOLD STATE	Lowes	122212		ternal digestive arrangements.  The secret of the great success of	les
		3		Z A TO	Stuart's Dyspepsia Tablets, is simply	her
The table following will give you some idea of the persistent way in which the management have asked for labor and					this, that they have been prepared upon the firm foundation of the most thor-	hou
management have asked for labor and money-saving improvements, and all of		ghest			ough research into the real origin and	che
money-saving improvements, and all of which recommendations, it will be noted, are embodied in Mr. Bruce's report.		igh	2222		cause of all disorders, due to the im-	In
Recommendations of Superin-		<b>H</b>			proper digestion and absorption of food. Knowing the cause, further research	per
THE REPORT OF THE PROPERTY OF			nd Marshall nd Marshall and Marshall d and Grace		led to the knowledge of how to relieve	cor
In annual report for 1895 your superin- tendent recommended that the coal gas	Supplied to		hall ash		and oure. Stuart's Dyspepsia Tablets are the only	the
plant be put in perfect condition; that 20-inch main be laid on Broad Street, west from Belvidere to Lombardy Street,	* 15 (m)	1612	arslars Mar		medic'ne founded upon certain scientific	of
and 2 10-inch laternal mains, connecting parallel streets as far south as Cary.	Service Services		EG KK		rules of treatment, which make success a certainty.	va
parallel streets as far south as Cary. Laid during 1896.		05.4	and and d an		They penetrate into all the channesl	ear
Laid during 1896. 38 ftr South as Cary. Laid during 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, new storage holder be built in West End. Now in course of erection. Lin 1898,1809, water mg direction.		0 n.	G G 'md 3 '		of your being, into the minutest arteries,	To
End. Now in course of erection. In 1898-1809, water gas plant be doubled.		ati	between Broad between Broad and Capitol between Broad between Broad hand Capitol		the tiniest lymphatics, the faintest tracery of nerve tissue; and renew, build	(
Bullt in 1900.		3	app app		up, refresh, and restore to health, every	319
In 1898, 1899, 1900, 1001, 1902, 1003, 1904, coal and water gas be metered separately and	NOTE AND		1 Con		disorder which improper food, poor di- gestion, or incomplete absorption has	Co
and water gas be metered separately and mixed at inlet of purifiers or holders. As recommended by Mr. Bruce in 1905.			B bet dive		caused, in any portion of your anatomy.	,
111 1000, 1000, 1000, 1001, 1002, 1003, 1904, conf			th a bett		No need to consult a physician, At the least sign of distress after eat-	ke
or sloper benches No. 0's (newest bench		2.37	bec. Tenth, by Tenth, by Tenth, by Twelth Monroe, Graham, 4Eleventh		ing, take Stuart's Dyspepsia Tablets.	the
cubic feet daily. New York city is now		ei	Sent Sent Sent Sent Sent Sent Sent Sent		On the least pain or discomfort, in	stu
In 1898, 1899, a multi-tubular condenser.		Dat	ATTITIT !		stomach, liver, back, or bowels, take Stuart's Dyspepsia Tablets.	on
Street from Twenty-eighth to Fifteenta				All Designation	For any craving for improper food,	of ch
gas plant be remodeled with recuperative or sloper benches No. 98 (newest bench at that time) so as to produce 2,00,000 cubic feet daily. New York city is now building a 10,000,000 cubic foot plant.  In 1888, 1899, a multi-tubular condenser.  In 1888, 1899, 1900, 24-inch main on Dock Street from Twenty-eighth to Fifteenth Street to connect with Upper Gas Works and feeders at that point. Laid in 1902.  In 1903, 1904, third standard Lowe apparatus.	Or an av	rures	of 9.9 cubic feet should demonst	trate be-	continual hunger, continual thirst, or loss of appetite in greater or lesses form,	boo
In 1903, 1904, third standard Lowe ap-	yond a do	ubt	hat my estimate	s of the	take Stuart's Dyspepsia Tablets.	an
In 1903, 1904, install 2,000,000 cubic foot	is not too	large	consumed by stre	ere made	By following these simple rules, you	an
exhauster. In 1904, build four new purifying boxes	to first ob	tain	oressure at burn	er. Then	will save yourself much pain, suffreing and discomfort, and will add greatly to	do
MYR9 feat	shown in	ere to	ested under the at the works, a two of the mos	pressures	your span of life.	me
And for increased size of mains from time to time; also other improvements. We can economically care for all con-	supervision	1. by	two of the mos	t reliable	Stuart's Dyspepsia Tablets will make you live long and happily.	pr
sumption and render more efficient and satisfactory service if appropriations are made sufficient to install the necessary			ed men in the wo efficient, with the nown above. The		They tham	nu te
made sufficient to install the necessary	plan of ter	sting	is different from	that re-		8530
improvements, and also take care of and	I sorted to	ph y	Ir. Bruce, who.	I under-	I.V. Bruste Co., Walanan Inton.	or
The state of the s	The state of the s		The state of the s	The state of the s		- annual

Increase, 19,291 10,128 20,639 16,391

Increase, 19,291 10,132 20,039 10,031 11,032 11,032 12,051 10,04 11,0432 12,556 6,344 9,124 2,015 1904 115,821 2,556 6,356 12,532 6,240 Increase, 5,328 12 3,408 4,225 I have been unable to find the dates that the works against which Mr. Bruce compares the Richmond works were built but it is fair to assume that they were built long since the Richmond plant was built; hence comparisons can hardly be fairly made.

Outlying Holder.

disposition of same, a cose watch has been maintained at all times over all materials of every description whatever, and your committee will bear out my statement that all purchases have been with a view to economical management. Cost of Coke Under Benches

Regarding comments relative to having used at times a higher percentage of coke under benches than at others, in order to maintain heats on retorts, I would state that the difference is due to the fact that as the retort benches in operation get older they require more fuel for maintaining heats.

### Cost Beyond Holder.

The statement that our expense for distribution is seven cents below what it should be is compilmentary, in view of the fact that we render consumers the same service that the majority of gas companies in this country do, and at less cost to the city.

We make service connections, connect heating and cooking stoves and water heaters, put on burners and blow out house pipes when necessary, without charge.

Income.

Commercial Department.

Commercial Department.

The records of the inspector's office are kept in accordance with the ordinances prescribed by the City Council, and are the results of long years of experience and study. Among the same are records for introaction of gas into buildings, turning on and turning off gas, compilaints, record of meters, records of meter readings and charge against consumers, gas bill listing books, records of deposits for gas, delinquent bill book, file of all plans of piping and lights on same.

All of the above records are faithfully and systematically kept, and while they do not emform entirely with Mr. Bruce's ideas, they met the approval of our former city accountant (now our honorable Mayor), and also the approval of our present city accountant, who recently made a thorough examination of our system of accounts.

Mr. Bruce recommends, not better records, but "mechanical devices." This, I

moderate price sold everywhere "b & b" DESCRIPTION OF THE PERSON OF T

take, is a compliment to our system of records and accounts.

Map of Works and Street Mains.

### Summary.

I have endeavored to show that your superintendent has managed the works with a view to economy and the best interest of the city.

That he has been alert to necessary improvements and has recommended same from time to time as each improvement appeared a necessity. That the ment appeared as a necessity; that the

rience in the gas department as mechanic, foreman, inspector, and later as superintendent for ten years, together with my standing in this community (in which I was born and have been reared) should add some weight to my statements in the

toregoing.
Thanking you for your patience and consideration, I am. Respectfully, W. P. KNOWLES, Sup't.

### Lengthy Appendix.

Lengthy Appendix.

The superintendent's report and the position he takes were reinforced with a lengthy appendix, consisting of statements of experienced men bearing upon the subject in hand. Among these is a letter from J. S. McIhenny, of the engineer's office of the Washington city gas works, who says, in summing up. "Devidently, Mr. Bruce has not given the matter sorious thought or else has not taken the trouble to acquaint himself with the true situation at Richmond, for I beleve if he were thoroughly acquainted with all the details of the case he would not make the recommendation contained in his letter."

Other affidavits in the appendix are



ing because it's a whiskey of merit-quality never fluctuates; made from the best grain; appreciated by good judges. full measure-convenient package

atlanta

Walter D. Moses & Co., 103 East Broad St. OLDEST MUSIC, HOUSE IN VIRGINIA

# A New Piano for 1906

Place one in your home now. Let the children have daily access to a perfect instrument from the first. On this depends their future musical education to a wonderful degree. With one their advancement is steady and certain.

Every member of the family will enjoy it. The home will be brighter and happier-the evenings full of cheer and

Our long and valuable experience, together with our large and unequalled line of instruments, assure you that we can furnish the ideal Piano or Organ-one that lasts

No terms so easy as ours; and just now, after the holiday season, our prices are remarkably low.

The satisfaction of our patrons is the first consideration, and no sale is deemed completed until the purchaser has been permanently pleased.

It's impossible to portray these instruments in cold type. You must see them. Hear the Pianola Piano and the Victor Talking Machine.

### PEOPLE IN ASHLAND. Rehearsals of the Ashland Choral

Club Taken Up Again.

Luia Johnston, of Richmond, and Mr. Luia Johnston, of Richmond, and Mr. And Mrs. Mutter Johnston, of Greensboro, N. C.

The Ashland Choral Club will resume its rehearsals of "The Redemption" in the college chapel Wednesday night, under the direction of Mr. Kugene Jones. Mrs. Blackwell will be the accompaniest. Mr. W. S. Duell, who is now employed by the American Cigar Company, in Richmond, has accented a position with the Day Time Recording Company, of Syracuse, and will take up his residence in that city after next spring.

Rev. James Reed. of Lynchburg, Va, is a visitor to-night at the home of Mrs. Laura Reed Blincoe.

Miss Maria Milnes, of Richmond, has returned after visiting Miss Carrie Midyette, in Ashland.

Miss Fannie Vaughan, of Richmond, was the guest yesterday of Mrs. H. A. Ellett.

Mr. Lyell Rice, of North Carolina, was the guest of his father, Mr. Samuel B. Rice, during Christmas week.
Captain Charles G. Blakey and Mrs. Blakey and family returned yesterday from a delightful trip to Kentucky.
Mrs. N. Buchanan, of West Clay Street, Ashland, with her son, Nettleton, has gone to New York city to John her husband, after a visit to her infirm mother in Ashland.
Misses Ntalie and Annie Lancaster and

n Ashtana. Misses Ntalie and Annie Lancaster and

Misses Nialie and Annie Lancaster and Daisy Bowers leave to-day to resume their duties at the State Normal School, Farmville.

Miss Bessie Crown has been visiting relatives in Washington.

Mrs. Charles Welsiger will be absent from Ashland for several weeks to visit her mother in Boydton, Va.

Mr. Richard Wilson, an old Random-Macon student, is visiting his old fraternity mates here.

Dr. Carter Weisiger, son of Mr. Carter Weisiger, of Ashland, has been visiting his father during Christmas. nity mates here.

# TUCKER IS PRESENTED TO PREMIER ROUVIER

Latter Expresses Keen Interest in the Success of the Jamestown Exposition.

(By Associated Press.)

PARIS January 2 .- Mr. McCormick, the American Ambassador, to-day presented Harry St. George Tucker, president of the Jamestown Exposition Company, to Premier Rouvier, who expressed his keen interest in the success of the exposition. Mr. Tucker said he was gratified by his long gand cordial anterview with the

Aged Banker Gets Five Years. ARBURN, N. Y., Jan. 2.—Manning C. Palmer, aged seventy-five president of the American Exchange National Bank by Syracuse, was convicted to-day of misappropriating the bank's funds and sentenced to five years. He was remanded pending an appeal.

# Direct **Importation** Fancy Crackers Fifty varieties just received from Hunt-

R. L. CHRISTIAN & CO.

Howard's Hope Not Blasted.

Carnegie Gives Half an Organ, SHENANDOAH, IOWA, Jan. 2—Andrew Carnegle has given the Baptist Society here \$1.00 to pay half the cost of a new pipe orean. Congregation at once subscribed the other thousand.

# CASTORIA For Infants and Children.

The Kind You Have Always Bought Bears the Chart Fletcher.

## Skin Preserver.

# Blanks' Velveteen Lotion

Blanks' Velveteen Lotion

It is one of the nicest tollet prenarations that you can get anywhere, it is a great favorite among the ladies. It nots like a charm upon the skin--very cooling, softening and healing in effect.

It softens and smooths rough skin, heals chapped surfaces, moistens dry, harsh spots, aids in restoring the color to faded complexions, and is very beneficial in clearing the skin of pimples, blackheads and muddiness.

We ask you to give this preparation a trial, confidently believing that you will be as other ladies are who have used it—a great admirer and constant user of it. You will find it a most pleasant addition to your list of toilet requisites.

Price 15 and 25 Cents a Rottle

Price 15 and 25 Cents a Bottle Prepared and Sold by

BLANKS The Prescription Druggist, and

L. Wagner Drug Co.